

Claims

- [c1] A portable security alarm device for use with personal baggage wherein the personal baggage includes opening and closing means, the security alarm device comprising: detector means for determining when the personal baggage is in at least a partially opened position; alarm means for emitting an audible alarm when the personal baggage is in at least a partially opened position; operator input means operable for selectively activating at least a first state of operation wherein said detector means is activated for determining when the personal baggage is in at least a partially opened position and a second state of operation wherein said detector means is deactivated; circuit means in electronic communication with said detector means, said alarm means and said operator input means; said circuit means being operable to activate said alarm means when said detector means determines that the personal baggage is in at least a partially opened position and when said first state of operation has been selected via said operator input means;

attachment means for removably operatively attaching said device to a personal baggage.

- [c2] The portable security alarm device defined in Claim 1 wherein said operator input means further includes means for activating said alarm means regardless of the state of operation of said device selected via said operator input means, said circuit means being further operable to activate said alarm means when said further operator input means are selected.
- [c3] The portable security alarm device defined in Claim 2 wherein said further operator input means includes a panic button.
- [c4] The portable security alarm device defined in Claim 1 wherein said operator input means includes a plurality of push buttons, and wherein activating and deactivating the first and second states of operation is accomplished by inputting a security code via said plurality of push buttons.
- [c5] The portable security alarm device defined in Claim 1 wherein selective activation of the first and second states of operation is accomplished by inputting a security code, via said operator input means, said operator input means being further operable to selectively activate a

programming state of operation wherein a user can randomly change the security code for activating and deactivating the first and second states of operation.

- [c6] The portable security alarm device defined in Claim 5 wherein selective activation of said programming state of operation is accomplished by inputting an access code via said operator input means.
- [c7] The portable security alarm device defined in Claim 1 including light means in electronic communication with said circuit means, said light means illuminating at a predetermined rate of illumination when said device is in its first state of operation.
- [c8] The portable security alarm device defined in Claim 1 wherein said detector means includes a pin member removably connected to said security alarm device, said pin member being pulled out of engagement with said device when the personal baggage is in at least a partially opened position.
- [c9] The portable security alarm device defined in Claim 8 wherein said attachment means includes means for attaching said security alarm device to the opening and closing means of the personal baggage, and means for attaching said pin member to the personal baggage in

the area where the opening and closing means is in its closed position.

[c10] A portable security alarm device for use with personal baggage wherein the personal baggage includes opening and closing means, the security alarm device comprising: a trigger mechanism for determining when the personal baggage is in at least a partially opened position; an alarm mechanism for sounding an audible alarm when activated; first operator input means operable for selectively activating a first state of operation wherein said trigger mechanism is activated for determining when the personal baggage is in at least a partially opened position and a second state of operation wherein said trigger mechanism is deactivated; second operator input means operable for selectively activating said alarm mechanism when said device is in either its first or second states of operation; circuit means in electronic communication with said trigger mechanism, said alarm mechanism, and said first and second operator input means; said circuit means being operable to activate said alarm mechanism when said trigger mechanism determines that the personal baggage is in at least a partially opened position and when said first state of operation

has been selected;

said circuit means being further operable to activate said alarm mechanism when said second operator input means has been selectively activated;

attachment means for removably operatively attaching said device to a plurality of different personal baggage.

[c11] The portable security alarm device defined in Claim 10 wherein said first operator input means includes a keypad and wherein activating and deactivating the first and second states of operation is accomplished by inputting a security code via said keypad.

[c12] The portable security alarm device defined in Claim 11 wherein the security code must be inputted within a predetermined period of time in order to change the state of operation of said device.

[c13] The portable security alarm device defined in Claim 1 wherein said second operator input means includes a panic button.

[c14] The portable security alarm device defined in Claim 13 wherein said panic button must be depressed for a predetermined minimum period of time before said alarm mechanism will be activated.

[c15] The portable security alarm device defined in Claim 14

wherein said panic button must be depressed for a predetermined minimum period of time in order to deactivate said alarm mechanism.

[c16] The portable security alarm device defined in Claim 14 wherein said panic button must be depressed a predetermined number of sequential times in order to deactivate said alarm mechanism.

[c17] The portable security alarm device defined in Claim 11 wherein a security code can be entered via said first operator input means within a predetermined period of time in order to deactivate said alarm mechanism when said alarm mechanism is activated via said second operator input means.

[c18] The portable security alarm device defined in Claim 10 wherein said first operator input means enables selective activation of said first and second states of operation via entry of a security code, said first operator input means being further operable for selective activation of a programming state of operation wherein a user can randomly change the security code for selectively activating the first and second states of operation of said device.

[c19] The portable security alarm device defined in Claim 18 wherein said first operator input means includes a key-

pad and wherein activation of said programming state of operation is accomplished by entering an access code via said keypad.

- [c20] The portable security alarm device defined in Claim 18 wherein a new security code must be inputted within a predetermined period of time after activation of said programming state of operation.
- [c21] The portable security alarm device defined in Claim 10 including light means in electronic communication with said circuit means, said light means illuminating at a predetermined rate of illumination when said device is in its first state of operation.
- [c22] The portable security alarm device defined in Claim 10 including light means in electronic communication with said circuit means, said light means illuminating at a predetermined rate of illumination when said alarm means is activated.
- [c23] The portable security alarm device defined in Claim 18 including light means in electronic communication with said circuit means, said light means illuminating at a predetermined rate of illumination when said programming state of operation is selected.
- [c24] The portable security alarm device defined in Claim 10

wherein said trigger mechanism includes a pin member removably connected to said device, said pin member being pulled out of engagement with said device when the personal baggage is in at least a partially opened position.

[c25] The portable security alarm device defined in Claim 24 wherein said attachment means includes means for attaching said security alarm device to the opening and closing means of the personal baggage and means for attaching said pin member to the personal baggage in the vicinity where the opening and closing means is in its closed position.

[c26] A portable security alarm device for use with a purse having a zipper closure means with a zipper clasp, the security alarm device comprising:
a trigger mechanism for determining when the zipper closure means is in at least a partially opened position;
an alarm mechanism for emitting an audible alarm when activated;
an operator input device for selectively activating a first state of operation wherein said trigger mechanism is activated for determining when the zipper closure means is in at least a partially opened position, a second state of operation wherein certain features of said device can be reprogrammed, and a third state of operation wherein

said trigger mechanism is deactivated and said device is in an off state;

a panic button operable for selectively activating said alarm mechanism;

light means operable for indicating various states of operation of said device;

circuit means in electronic communication with said trigger mechanism, said alarm mechanism, said operator input device, said panic button, and said light means;

said circuit means being operable to activate said first state of operation upon inputting an access code into said operator input device;

said circuit means being operable to activate said alarm mechanism when said trigger mechanism determines that the zipper closure means is in at least a partially opened position and when said device is in its first state of operation;

said circuit means being operable to activate said alarm mechanism when said panic button is activated;

said circuit means being operable to activate said second state of operation upon inputting an access code into said operator input device;

said circuit means being operable to activate said third state of operation upon inputting an access code into said operator input device;

said circuit means being operable to deactivate the alarm

mechanism upon input of an access code into said operator input device;

a housing structure for housing at least a portion of said trigger mechanism, said alarm mechanism, said operator input device, said panic button, and said circuit means;

attachment means associated with said housing structure for removably attaching said device to the zipper clasp;

attachment means associated with said trigger mechanism for removably attaching said trigger mechanism to the purse in the vicinity adjacent to where the zipper closure means is in its closed position.

[c27] The portable security alarm device defined in Claim 26 wherein activation of said second state of operation enables a user to randomly change the access code for selectively activating the first and third states of operation.

[c28] The portable security alarm device defined in Claim 26 wherein activation of said second state of operation enables a user to randomly change the access code for deactivating the alarm mechanism.

[c29] The portable security alarm device defined in Claim 27 wherein said device will automatically return to said third state of operation upon expiration of a predetermined period of time if no new access code is entered.

- [c30] The portable security alarm device defined in Claim 27 wherein said device will automatically return to said third state of operation if an improper access code is entered.
- [c31] The portable security alarm device defined in Claim 27 wherein the present device will automatically return to the third state of operation when a new access code is properly entered.
- [c32] The portable security alarm device defined in Claim 26 wherein once said alarm mechanism has been selectively activated by said Panic button, said circuit means is further operable to deactivate said alarm mechanism upon further activation of said Panic button.
- [c33] The portable security alarm device defined in Claim 32 wherein said further activation of said Panic button includes depressing said Panic button for a predetermined minimum period of time.
- [c34] The portable security alarm device defined in Claim 32 wherein said further activation of said Panic button includes depressing said Panic button a predetermined number of sequential times.
- [c35] The portable security alarm device defined in Claim 26 wherein said trigger mechanism includes a pin member

removably connected to said device, said pin member being pulled out of engagement with said device when the zipper clasp is moved to an at least partially opened position.

[c36] The portable security alarm device defined in Claim 35 wherein said circuit means is further operable to deactivate said alarm mechanism upon reengagement of said pin member with said device.

[c37] The portable security alarm device defined in Claim 26 wherein said attachment means associated with said housing structure includes a ring member.

[c38] The portable security alarm device defined in Claim 26 wherein said attachment means associated with said trigger mechanism includes cooperatively engageable male and female portions, said female portion being attached to said trigger mechanism and said male portion being removably attached to the purse in the vicinity adjacent to where the zipper closure means is in its closed position.

[c39] The portable security alarm device defined in Claim 26 wherein said attachment means associated with said trigger mechanism includes a piercing member engageable with the purse in the vicinity adjacent to where the

zipper closure means is in its closed position.

- [c40] The portable security alarm device defined in Claim 26 wherein said housing structure includes front and rear portions, said front portion being removably attachable to and detachable from said rear portion.
- [c41] The portable security alarm device defined in Claim 26 wherein said housing structure includes front and rear portions, and further including a plurality of face plate members, each face plate member being removably co-operatively engageable with the front portion of said housing structure for changing the aesthetic appearance of said device.
- [c42] The portable security alarm device defined in Claim 26 wherein said light means includes a light emitting diode.